PATENT COOPERATION TREATY

	RNATIONAL SEARCHING AUTH	ORITY		DOT		
To: see form PCT/tSA/220			PCT			
			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis.</i> 1)			
			Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)		
	icent's or agent's file reference form PCT/ISA/220		FOR FURTHER A			
	national application No. T/GB2005/000350	International filing date (continued of the continued of	day/month/year)	Priority date (day/month/year) 03.02.2004		
International Patent Classification (IPC) or both national classification and IPC C07D407/12, C07D213/82, C07D409/12, A61K31/4433, A61K31/4418, A61K31/4436, A61P25/04						
	licant AXO GROUP LIMITED					
1.	This opinion contains indicati	ons relating to the foll	lowing items:			
⊠ Box No. I Basis of the opinion						
	Box No. II Priority	amon	ard to novelty, inventive step and industrial applicability			
	_	ment of opinion with reas				
	Box No. IV Lack of unity of	,				
	☑ Box No. V Reasoned stat	tement under Rule 43 <i>bi</i> s	vis.1(a)(I) with regard to novelty, inventive step or industrial as supporting such statement			
	⊠ Box No. VI Certain docum	ents cited				
	☐ Box No. VII Certain defect	s in the international app	olication	•		
	☐ Box No. VIII Certain observ					
2.	FURTHER ACTION			i e		
If a demand for International preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Bule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
' 3 .	For further details, see notes to	Form PC MSA/220.				
Nam	e and mailing address of the ISA:		Authorized Officer			



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000350

_	Box N	o. I Basis of the opinion				
1.		With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
	la	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:					
		a sequence listing				
		table(s) related to the sequence listing				
b. format of material:						
		in written format				
		in computer readable form				
c. time of filing/furnishing:						
☐ contained in the international application as filed.		contained in the international application as filed.				
	₽	filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.				

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000350

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The obv	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international application,					
×	claims Nos. 9-10 (industrial applicability)					
bed	because:					
ឪ	the said international application, or the said claims Nos. 9,10 (industrial applicability) relate to the following subject matter which does not require an international preliminary examination (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos, are so inadequately supported by the description that no meaningful opinion could be formed.					
	no international search report has been established for the whole application or for said claims Nos.					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form		has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
		e tables related to the nucleotide and/or amino acid sequence listing, if In computer readable form only, do bt comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
Ö	See separate sheet for further (detai	is			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000350

Box No. V Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

No: Claims

Inventive step (IS)

Yes: Claims

1-10

No: Claims

Industrial applicability (IA)

Yes: Claims

1-8

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/000350

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 9 and 10 relate to subject matter considered by this Authority to be covered by the provisions of Rule 67.1 (iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject matter of these claims, cf. Article 34(4)(a)(i) PCT.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Reference is made to the following documents:
- D1: WO 02/062750 A (SCHERING CORPORATION) 15 August 2002 (2002-08-15)
- 2- Novelty

D1 does not disclose any pyridine derivative having the same substitution pattern of present compounds of formula (I).

Accordingly, the requirements of Art.33.2 PCT are met.

- 3- Inventive step
- 3.1- The applicant has set himself the task of providing novel agents capable to modulate the cannabinoid receptor in particular the sub receptor CB2.

Document d1 relate to polycyclic compounds having the same use of present compounds. Taking into account of the data disclosed on page 19 of the application, it appears credible that substantially all the claimed compound modulate the CB2 receptor.

Accordingly, the objective technical problem can be seen in the provision of further CB2 modulators.

3.2- The skilled person faced with the technical problem defined above would not find any hint in d1 for preparing present compounds of formula (I).

Accordingly, the requirements of Art. 33.3 PCT are met.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/000350

Re Item VI Certain documents cited

D2: WO 2004/029026 A (GLAXO GROUP LIMITED; EATHERTON, ANDREW, JOHN; GIBLIN, GERARD, MARTIN,) 8 April 2004 (2004-04-08)

D3: WO 2004/029027 A (GLAXO GROUP LIMITED; EATHERTON, ANDREW, JOHN; GIBLIN, GERARD, MARTIN,) 8 April 2004 (2004-04-08)